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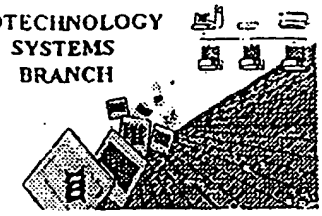
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BIOTECHNOLOGY SYSTEMS BRANCH



RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/804,096
Source: IFW0
Date Processed by STIC: 3/25/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
Effective 12/13/03: **TELEPHONE: 571-272-2510; FAX: 571-273-0221**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03): U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1D03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED | **SUGGESTED CORRECTION** | SERIAL NUMBER: 10/804,096

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1	Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
2	Invalid Line Length	The rules require that a line not exceed 72 characters in length. This includes white spaces.
3	Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
4	Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
5	Variable Length	Sequence(s) ____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
6	PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
7	Skipped Sequences (OLD RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence: (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading) (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown) This sequence is intentionally skipped Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
8	Skipped Sequences (NEW RULES)	Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence. <210> sequence id number <400> sequence id number 000
9	Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been detected in the Sequence Listing. Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present. In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
10	Invalid <213> Response	Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
11	Use of <220>	Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
12	PatentIn 2.0 "bug"	Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
13	Misuse of n/Xaa	"n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004
TIME: 16:15:28

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

```
  3 <110> APPLICANT: Societe Des Produits Nestle S.A.
  5 <120> TITLE OF INVENTION: COFFEE PLANT WITH REDUCED a-D-GALACTOSIDASE ACTIVITY
  7 <130> FILE REFERENCE: 88265-6868
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/804,096
C--> 9 <141> CURRENT FILING DATE: 2004-03-19
  9 <150> PRIOR APPLICATION NUMBER: PCT/US02/09148
 10 <151> PRIOR FILING DATE: 2002-08-15
 12 <160> NUMBER OF SEQ ID NOS: 21
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1442
 18 <212> TYPE: DNA
 19 <213> ORGANISM: coffee
 21 <400> SEQUENCE: 1
 22 tgctccacaa agcagtggca attgagttga ttgatcaaca ccaatttacc atggccgctg     60
 24 cttattacta ccttttttct agtaaaaaaa gccaccaaaa gctggtgctc cgagcttcgt    120
 26 tattgatgtt tttatgtttc ttggcggttg aaaacgttgg tgcttccgct cgccggatgg    180
 28 tgaagtctcc aggaacagag gattacactc gcaggagcct tttagcaaat gggcttggtc    240
 30 taacaccacc gatggggtgg aacagctgga atcatttcag ttgtaatctt gatgagaaat    300
 32 tgatcaggga aacagccgat gcaatggcat caaaggggct tgctgcactg ggatataagt    360
 34 acatcaatct tgatgactgt tgggcagaac ttaacagaga ttcacagggg aatttggttc    420
 36 ctaaaggttc aacattccca tcagggatca aagccttagc agattatgtt cacagcaaag    480
 38 gcctaaagct tggaatttac tctgatgctg gaactcagac atgtagtaaa actatgccag    540
 40 gttcattagg acacgaagaa caagatgcca aaacctttgc ttcatggggg gttgattact    600
 42 taaagtatga caactgtaac gacaacaaca taagccccaa ggaaaggtat ccaatcatga    660
 44 gtaaagcatt gttgaactct ggaaggtcca tatttttctc tctatgtgaa tggggagatg    720
 46 aagatccagc aacatgggca aaagaagttg gaaacagttg gagaaccact ggagatatag    780
 48 atgacagttg gagtagcatg acttctcggg cagatatgaa cgacaaatgg gcatcttatg    840
 50 ctggtcccgg tggatggaat gatcctgaca tgttggaggt gggaaatgga ggcatgacta    900
 52 caacggaata tcgatcccat ttcagcattt gggcattagc aaaagcacct ctactgattg    960
 54 gctgtgacat tcgatccatt gacggtgcga ctttccaact gttaagcaat gcggaagtta   1020
 56 ttgcggttaa ccaagataaa cttggcgttc aagggaaaaa ggttaagact tacggagatt   1080
 58 tggaggtgtg ggctggacct cttagtggaa agagagtagc tgtcgctttg tggaatagag   1140
 60 gatcttccac ggctactatt accgcgtatt ggtccgacgt aggcctcccg tccacggcag   1200
 62 tggttaatgc acgagactta tgggcgcatt caaccgaaaa atcagtcaaa ggacaaatct   1260
 64 cagctgcagt agatgcccac gattcgaaaa tgtatgtcct aaccccacag tgattaacag   1320
 66 gagaatgcag aagacaagtg atggttggct ctttcaagga tttgattacc ttaaagaatt   1380
 68 tttcacatgt tatgaatcaa ttcaaagcaa ttatgtgttt tgaagagatt aagtcaataa   1440
 70 at                                                                 1442
 73 <210> SEQ ID NO: 2
 74 <211> LENGTH: 420
 75 <212> TYPE: PRT
 76 <213> ORGANISM: coffee
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Does Not Comply
Corrected Diskette Needed
(pg. 4)

RAW SEQUENCE LISTING DATE: 03/25/2004
PATENT APPLICATION: US/10/804,096 TIME: 16:15:28

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

78 <400> SEQUENCE: 2
80 Met Ala Ala Ala Tyr Tyr Tyr Leu Phe Ser Ser Lys Lys Ser His Gln
81 1 5 10 15
84 Lys Leu Val Leu Arg Ala Ser Leu Leu Met Phe Leu Cys Phe Leu Ala
85 20 25 30
88 Val Glu Asn Val Gly Ala Ser Ala Arg Arg Met Val Lys Ser Pro Gly
89 35 40 45
92 Thr Glu Asp Tyr Thr Arg Arg Ser Leu Leu Ala Asn Gly Leu Gly Leu
93 50 55 60
96 Thr Pro Pro Met Gly Trp Asn Ser Trp Asn His Phe Ser Cys Asn Leu
97 65 70 75 80
100 Asp Glu Lys Leu Ile Arg Glu Thr Ala Asp Ala Met Ala Ser Lys Gly
101 85 90 95
104 Leu Ala Ala Leu Gly Tyr Lys Tyr Ile Asn Leu Asp Asp Cys Trp Ala
105 100 105 110
108 Glu Leu Asn Arg Asp Ser Gln Gly Asn Leu Val Pro Lys Gly Ser Thr
109 115 120 125
112 Phe Pro Ser Gly Ile Lys Ala Leu Ala Asp Tyr Val His Ser Lys Gly
113 130 135 140
116 Leu Lys Leu Gly Ile Tyr Ser Asp Ala Gly Thr Gln Thr Cys Ser Lys
117 145 150 155 160
120 Thr Met Pro Gly Ser Leu Gly His Glu Glu Gln Asp Ala Lys Thr Phe
121 165 170 175
124 Ala Ser Trp Gly Val Asp Tyr Leu Lys Tyr Asp Asn Cys Asn Asp Asn
125 180 185 190
128 Asn Ile Ser Pro Lys Glu Arg Tyr Pro Ile Met Ser Lys Ala Leu Leu
129 195 200 205
132 Asn Ser Gly Arg Ser Ile Phe Phe Ser Leu Cys Glu Trp Gly Asp Glu
133 210 215 220
136 Asp Pro Ala Thr Trp Ala Lys Glu Val Gly Asn Ser Trp Arg Thr Thr
137 225 230 235 240
140 Gly Asp Ile Asp Asp Ser Trp Ser Ser Met Thr Ser Arg Ala Asp Met
141 245 250 255
144 Asn Asp Lys Trp Ala Ser Tyr Ala Gly Pro Gly Gly Trp Asn Asp Pro
145 260 265 270
148 Asp Met Leu Glu Val Gly Asn Gly Gly Met Thr Thr Thr Glu Tyr Arg
149 275 280 285
152 Ser His Phe Ser Ile Trp Ala Leu Ala Lys Ala Pro Leu Leu Ile Gly
153 290 295 300
156 Cys Asp Ile Arg Ser Ile Asp Gly Ala Thr Phe Gln Leu Leu Ser Asn
157 305 310 315 320
160 Ala Glu Val Ile Ala Val Asn Gln Asp Lys Leu Gly Val Gln Gly Lys
161 325 330 335
164 Lys Val Lys Thr Tyr Gly Asp Leu Glu Val Trp Ala Gly Pro Leu Ser
165 340 345 350
168 Gly Lys Arg Val Ala Val Ala Leu Trp Asn Arg Gly Ser Ser Thr Ala
169 355 360 365
172 Thr Ile Thr Ala Tyr Trp Ser Asp Val Gly Leu Pro Ser Thr Ala Val
173 370 375 380

RAW SEQUENCE LISTING DATE: 03/25/2004
PATENT APPLICATION: US/10/804,096 TIME: 16:15:28

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

```
176 Val Asn Ala Arg Asp Leu Trp Ala His Ser Thr Glu Lys Ser Val Lys
177 385                 390                 395                 400
180 Gly Gln Ile Ser Ala Ala Val Asp Ala His Asp Ser Lys Met Tyr Val
181                 405                 410                 415
184 Leu Thr Pro Gln
185             420
188 <210> SEQ ID NO: 3
189 <211> LENGTH: 17
190 <212> TYPE: DNA
191 <213> ORGANISM: artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: primer
196 <400> SEQUENCE: 3
197 atggtgaagt ctccagg                                                  17
200 <210> SEQ ID NO: 4
201 <211> LENGTH: 17
202 <212> TYPE: DNA
203 <213> ORGANISM: artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: primer
208 <400> SEQUENCE: 4
209 tcactgtggg gttagga                                                 17
212 <210> SEQ ID NO: 5
213 <211> LENGTH: 23
214 <212> TYPE: DNA
215 <213> ORGANISM: artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: primer
220 <400> SEQUENCE: 5
221 tgctccacaa agcagtggca att                                          23
224 <210> SEQ ID NO: 6
225 <211> LENGTH: 23
226 <212> TYPE: DNA
227 <213> ORGANISM: artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: primer
232 <400> SEQUENCE: 6
233 atttattgac ttaatctctt caa                                          23
236 <210> SEQ ID NO: 7
237 <211> LENGTH: 35
238 <212> TYPE: DNA
239 <213> ORGANISM: artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: primer
244 <400> SEQUENCE: 7
245 cggggtaccc cgcctctttt cttttggagt acaag                             35
248 <210> SEQ ID NO: 8
249 <211> LENGTH: 35
250 <212> TYPE: DNA
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RAW SEQUENCE LISTING DATE: 03/25/2004
PATENT APPLICATION: US/10/804,096 TIME: 16:15:28

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

```
251 <213> ORGANISM: artificial
253 <220> FEATURE:
254 <223> OTHER INFORMATION: primer
256 <400> SEQUENCE: 8
257 cgcggatccg cgtctctgac aacagaggag agtgt                              35
260 <210> SEQ ID NO: 9
261 <211> LENGTH: 12
262 <212> TYPE: DNA
263 <213> ORGANISM: artificial
265 <220> FEATURE:
266 <223> OTHER INFORMATION: unknown
268 <400> SEQUENCE: 9
269 cggggtaccc cg                                                       12
272 <210> SEQ ID NO: 10
273 <211> LENGTH: 12
274 <212> TYPE: DNA
275 <213> ORGANISM: artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: unknown
280 <400> SEQUENCE: 10
281 cgcggatccg cg                                                       12
284 <210> SEQ ID NO: 11
285 <211> LENGTH: 36
286 <212> TYPE: DNA
287 <213> ORGANISM: artificial
289 <220> FEATURE:
290 <223> OTHER INFORMATION: primer
292 <400> SEQUENCE: 11
293 cggggtaccc cgacaaaaga ttgaacaata catgtc                              36
296 <210> SEQ ID NO: 12
297 <211> LENGTH: 35
298 <212> TYPE: DNA
299 <213> ORGANISM: artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: primer
304 <400> SEQUENCE: 12
305 cgcggatccg cggagctcga atttccccga tcgtt                              35
308 <210> SEQ ID NO: 13
309 <211> LENGTH: 35
310 <212> TYPE: DNA
311 <213> ORGANISM: artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: primer
316 <400> SEQUENCE: 13
317 cggggtaccc cggaattccc gatctagtaa catag                              35
320 <210> SEQ ID NO: 14
321 <211> LENGTH: 35
322 <212> TYPE: DNA
323 <213> ORGANISM: artificial
```

- Please explain source of genetic material
- Invalid response
- Please explain source of genetic material.
- Invalid Response

Please see item # 11 on error summary sheet.

RAW SEQUENCE LISTING DATE: 03/25/2004
PATENT APPLICATION: US/10/804,096 TIME: 16:15:28

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

325 <220> FEATURE:
326 <223> OTHER INFORMATION: primer
328 <400> SEQUENCE: 14
329 cgcggatccg cgtgctccac aaagcagtgg caatt 35
332 <210> SEQ ID NO: 15
333 <211> LENGTH: 35
334 <212> TYPE: DNA
335 <213> ORGANISM: artificial
337 <220> FEATURE:
338 <223> OTHER INFORMATION: primer
340 <400> SEQUENCE: 15
341 cgcggatccg cgatttattg acttaatctc ttcaa 35
344 <210> SEQ ID NO: 16
345 <211> LENGTH: 35
346 <212> TYPE: DNA
347 <213> ORGANISM: artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: primer
352 <400> SEQUENCE: 16
353 cacgcgtcga cgctccaccg cggtggcggc cgctc 35
356 <210> SEQ ID NO: 17
357 <211> LENGTH: 23
358 <212> TYPE: DNA
359 <213> ORGANISM: artificial
361 <220> FEATURE:
362 <223> OTHER INFORMATION: primer
364 <400> SEQUENCE: 17
365 gggccccccc tcgaggtcga cgg 23
368 <210> SEQ ID NO: 18
369 <211> LENGTH: 23
370 <212> TYPE: DNA
371 <213> ORGANISM: artificial
373 <220> FEATURE:
374 <223> OTHER INFORMATION: primer
376 <400> SEQUENCE: 18
377 ttcttttgtt cctcggctgt ttg 23
380 <210> SEQ ID NO: 19
381 <211> LENGTH: 24
382 <212> TYPE: DNA
383 <213> ORGANISM: artificial
385 <220> FEATURE:
386 <223> OTHER INFORMATION: primer
388 <400> SEQUENCE: 19
389 ccaaacatca aacttctcgc aatc 24
392 <210> SEQ ID NO: 20
393 <211> LENGTH: 27
394 <212> TYPE: DNA
395 <213> ORGANISM: artificial
397 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/25/2004
PATENT APPLICATION: US/10/804,096 TIME: 16:15:29

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

Invalid <213> Response:
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY DATE: 03/25/2004
PATENT APPLICATION: **US/10/804,096** TIME: 16:15:29

Input Set : **A:\88265-6868.txt**
Output Set: **N:\CRF4\03252004\J804096.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date